

ORIGINAL

LAMBERT AND ANTHONY
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CONCORD, NORTH CAROLINA 28027

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FOU MAIL STOP
MAR 20 11:55 AM '92

17 March 1992

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MAR 23 1992

Federal Communications Commission
Office of the Secretary

Ms. Donna Searcy, Secretary
Federal Communications Commission
1919 M Street, NW
Washington, DC 20554

RE: RM-7907
MM Docket 92-32
Blacksburg and Roanoke, VA
Lewisburg, West Virginia

Honourable Secretary:

Transmitted herewith on behalf of FERNBROOK BROADCASTING COMPANY, INCORPORATED is an original and four copies of INITIAL COMMENTS to be incorporated as pleadings in the above-captioned application. FERNBROOK BROADCASTING is licensee of WKDE(FM) Altavista, Virginia and has standing in the proceeding.

Should there be enquiry please direct it to the undersigned.

Very truly yours,

York David Anthony
Consulting Engineer
WKDE Altavista, Virginia

enc1

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ORIGINAL

FCC MAIL SECTION

Before the

FEDERAL COMMUNICATIONS COMMISSION

Washington, DC 20554

RECEIVED

MAR 23 1992

Federal Communications Commission
Office of the Secretary

In the matter of)
)
47CFR 73.202[b])
FM Table of Allotments)
Blacksburg and Roanoke, Virginia)
Lewisburg, West Virginia)

RM-7907

MM Docket 92-32

INITIAL COMMENTS

Now comes Fernbrook Broadcasting Company, Incorporated, licensee of WKDE (FM) Altavista, Virginia, who, pursuant to 1.415 of the Commission's Rules and Regulations seek to advance initial comments in the above-captioned proceeding. In support whereof, Fernbrook Broadcasting, Incorporated (WKDE) show the following:

1. WKDE operate in channel 288A at Altavista, Virginia. According to Exhibit 1 (an FCC 73.207 spacing study) WKDE is shortspaced approximately 3 km to the construction permit at Roanoke, Virginia on channel 287A (BPH-8806020J). This prohibited shortspacing is principally the cause of why WKDE cannot increase to the maximum for its Class (6 kw and 100 meters or the equivalent).

2. The proposed rulemaking would substitute channel 285C3 for channel 287A at Roanoke. The required C3 (Roanoke) to A (Altavista) separation would be 42 km. The present situation (287A at Roanoke and 288A at Altavista) is 69 km, which as mentioned before, would be a prohibited shortspacing.

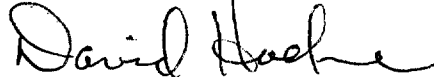
3. The authorized site for the Roanoke station has a published standard 8-radial HAAT of 23 meters. However, in order to process a shortspacing application under the present rule 73.215, we must assume that Ms. Brown operate with 100 meters above the average terrain (see attachment). Under the assumption that Ms. Brown did operate with 100 meters above the average terrain, she would have an HAAT on the bearing towards WKDE of nearly 200 meters (see the attached). For example, at 100° (the direct line bearing from the Brown facility to WKDE) her 60 dBuV contour will go 38 km in lieu of the usual 28 km, and her 54 dBuV interference contour will go 57 km in lieu of the usual 43 km. Inasmuch as the stations are 69 km separated it is obvious that, due to quirks in the terrain, that the proposed channel 105.3 operation at Roanoke will cause intolerable interference to WKDE should it operate on that channel.

4. The proposed Blacksburg-Lewisburg-Roanoke exchange will have tremendous benefit to WKDE. Presently, Roanoke propose to change to 104.9 (285C3) which will be the third adjacent to WKDE. The Roanoke-Altavista shortspacing will be eliminated, as will the huge area of interference between Roanoke and Altavista if the status quo is maintained.

5. We believe that the public interest, convenience, and necessity will be served by the prompt and expeditious adoption of RM-7907 as it will permit WKDE to more readily increase to 6 kilowatts MERP, and it will eliminate a potential zone of interference due to terrain quirks between Altavista and Roanoke as well as a shortspacing between those two cities.

6. WHEREFORE, Fernbrook Broadcasting, Incorporated urges the Commission to adopt the rulemaking in MM 92-32 as expeditiously as possible, and WKDE fully supports the requested changes in that docket.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "David Hoehne".

David Hoehne
Fernbrook Broadcasting, Incorporated
WKDE Altavista, Virginia

This the 17th day March, 1992

BEFORE THE
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, DC 20554

FEDERAL SECTION
NO. 2
11-5-1-10

In the matter of)	
)	
47 CFR 73.202[b])	
FM Table of Allotments)	RM-7907
Blacksburg and Roanoke, Virginia)	MM Docket 92-32
Lewisburg, West Virginia)	

ENGINEERING PLEADING
IN SUPPORT OF INITIAL COMMENTS

Comes now York David Anthony, of 2613 Craig Avenue, Concord, North Carolina 28027, who, pursuant to section 1.415 of the Commission's Rules, wishes to present engineering data in support of initial comments filed by Fernbrook Broadcasting, Incorporated, licensee of WKDE(FM) Altavista, Virginia. My qualifications as an electrical engineer are a matter of public record with the Commission. In support whereof I present the following:

I currently represent the lead petitioner in the above-captioned docket (Blacksburg-Christiansburg Broadcasting Company, Incorporated, licensee of WVVV Blacksburg, VA) and am intimately aware of the case.

In addition I represent WKDE, which is not directly a party to this case, but, if RM-7907 were to be adopted, would receive significant benefits to its operation.

The thrust of the engineering argument is that presently, one of the Joint Petitioners in the above-captioned application operates in channel 287A at Roanoke. WKDE operate in channel 288A at Altavista. These stations were fully spaced under the 'old' FM rules but are now 2.93 km short (see attached Exhibit 1). Originally I was asked by Fernbrook Broadcasting (WKDE) to prepare a contour protection 73.215 application that would permit WKDE 6 kw and fully protect the Brown station at Roanoke.

Exhibit 2 attached illustrates the rather inhospitable terrain 'boost' Ms. Brown currently enjoys on channel 287A at Roanoke. The direct bearing between the Brown 287A station and the Altavista 288A station is 100 degrees. On that bearing the HAAT of the Brown station (for 73.215 purposes, assuming a classical 8-radial HAAT of 100 meters and 7.77 dBkW (6 kw) output) is 185 km.

The normal 54 dBuV contour for a class 'A' station (F 50,10) is 43 km. In the Brown case (on the direct bearing between Brown and WKDE) the 54 dBuV contour at 3 kw is 48 km and at 6 kw is 56 km.

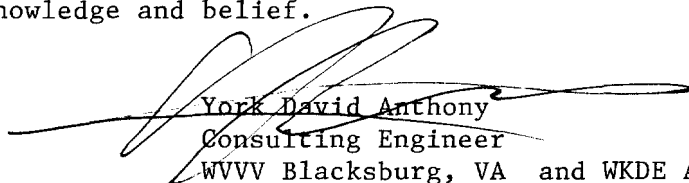
In order that WKDE were to actually have to protect the Brown station the normally protected interference free (60 dBuV) contour would have to extend from the WKDE facility no more than 16 km.

The result of the status quo (Brown at 287A in Roanoke and WKDE at 288A in Altavista) is, due to a quirk of nature and the stochastic process which allocations are made, that severe adjacent channel interference will result as there would be an odious level of prohibited adjacent overlap between WKDE and the Brown station. In fact, if WKDE were to move to be fully spaced to Brown, the odious levels of interference would still remain as the Brown facility, towards Altavista, is equivalent (almost) to a maximum class 'C3' facility (a 60 dBuV contour of 37.7 km instead of the usual 28 km).

We fully recognise that the Commission do not account for terrain anomalies and other acts of nature in its Table of Assignments. On the other hand, the adoption of the present rulemaking would ostensibly remove any prohibited first adjacent overlap (in the de facto sense) as the Brown station would be moving to the third adjacent channel relative to Altavista.

In short, the public interest, convenience, and necessity will be served by the Commission promptly and expeditiously granting the exchange of channels proposed in Docket 92-32.

I certify under penalty of perjury that the statements contained herein are true to the best of my knowledge and belief.


York David Anthony
Consulting Engineer
WVTV Blacksburg, VA and WKDE Altavista, VA

This the 15th day March, 1992

FM Spacing Study SECTION

Title: WKDE Altavista, VA
Channel 288A (105.5 MHz)
Database: DW 03/13/92

Latitude: 37-09-37
Longitude: 79-13-28
Safety zone: 30 km

Call Auth Licensee name Chan ERP-kW Latitude Br-to Dist. Req.
City of License St FCC File no. Freq EAH-m Longitude -from (km) (km)
=====

WQDR	LIC	DURHAM LIFE BROADCASTING	234C	100	35-40-35	159.3	175.9	29
RALEIGH		NC BLH-910411KB	94.7	512BT	78-32-09	339.7	146.9	CLEAR

License Granted 02/10/92 per FCC release #21320 dated 02/24/92;
Ant: Alan Dick Co, Ltd FCS-3SH30ND

WPVR	LIC	JIM GIBBONS RADIO INC	235C	100	37-11-50	273.1	82.57	29
ROANOKE		VA	94.9	604	80-09-11	92.6	53.57	CLEAR

Affiliated with WFIR(AM)

PRM		PROPOSED RULE MAKING	285C3		37-20-33	289.0	63.02	42
ROANOKE		VA DOC-92-32	104.9		79-53-50	108.6	21.02	CLEAR

PRM adopted 02/24/92, released 03/04/92; SITE RESTRICTION 5.2 MI NE

WRDJ-FM LIC		CLARK BROADCASTING COMPA	286A	3	38-24-30	11.5	141.4	31
BRIDGEWATER		VA BLH-890606KD	105.1	100	78-54-04	191.7	110.4	CLEAR

License Granted 07/12/90 per FCC release #20905 dated 07/18/90;
Call Granted 03/01/89

NEW	CP	SUSAN D BROWN	287A	3	37-17-01	281.7	69.07	72
ROANOKE		VA BPH-880602OJ	105.3	23	79-59-14	101.2	-2.93	SHORT

Deletion proposed; CP Granted 11/27/91 per FCC release dated 12/09/91;
Hearing DOC-90-295, adopted 05/21/90, released 06/21/90

PRM		DELETION PROPOSED	287A		37-17-01	281.7	69.07	72
ROANOKE		VA DOC-92-32	105.3		79-59-14	101.2	-2.93	SHORT

Deletion proposed; PRM adopted 02/24/92, released 03/04/92

NEW	APP	ROANOKE RADIO LTD PTSHP	287A	1.54	37-13-56	276.5	73.31	72
ROANOKE		VA BPH-880601NB	105.3	138	80-02-43	96.0	1.313	CLOSE

Amended 09/07/88; Hearing DOC-90-295, adopted 05/21/90, released 06/21/90

PRM		PROPOSED RULE MAKING	287C3		37-16-14	276.8	110.4	89
BLACKSBURG		VA DOC-92-32	105.3		80-27-39	96.0	21.42	CLEAR

PRM adopted 02/24/92, released 03/04/92; SITE RESTRICTION 3.9 MI NW

WKDE-FM LIC		FERNBROOK BROADCASTING C	288A	3	37-09-37	.0		115
ALTAVISTA		VA BLH-870130KA	105.5	100	79-13-28	.0	-115	SHORT

Was WKHV 11/15/90 per FCC release #147 dated 11/16/90;
Affiliated with WKDE(AM)

WSHV	LIC	OLD BELT BROADCASTING CO	288A	3	36-44-39	115.8	105.3	115
SOUTH HILL		VA	105.5	70	78-09-42	296.4	-9.68	SHORT

See LAWRENCEVILLE VA; Affiliated with WJWS(AM)

WSHV	CP	OLD BELT BROADCASTING CO	288A	6	36-44-39	115.8	105.3	115
SOUTH HILL		VA BPH-900601IA	105.5	98	78-09-42	296.4	-9.68	SHORT

CP Granted 11/13/91 per FCC release #21253 dated 11/19/91

Lambert & Anthony
Concord, North Carolina

Page 1
March 15, 1992

Terrain Averages from NGDC 30-second Topographic database

Job Title: Susan D. Brown
Center of Radiation 496.7 m (1629.6 ft) A.M.S.L.

Latitude: 37-17-01
Longitude: 79-59-14

Bearing (Degrees true)	3.0 to 16.0 kilometer average terrain elevation		Height above average terrain	
	(meters)	(feet)	(meters)	(feet)
.0	438.9	1440.0	57.8	189.6
* 10.0	388.9	1275.9	107.8	353.7
* 20.0	375.3	1231.3	121.4	398.3
* 30.0	372.5	1222.1	124.2	407.5
* 40.0	367.2	1204.7	129.5	424.9
* 50.0	415.0	1361.5	81.7	268.0
* 60.0	344.7	1130.9	152.0	498.7
* 70.0	360.3	1182.1	136.4	447.5
* 75.0	396.3	1300.2	100.4	329.4
* 80.0	403.4	1323.5	93.3	306.1
* 85.0	360.4	1182.4	136.3	447.2
* 90.0	339.4	1113.5	157.3	516.1
* 95.0	324.0	1063.0	172.7	566.6
* 100.0	311.9	1023.3	184.8	606.3
* 105.0	310.3	1018.0	186.4	611.5
* 110.0	302.6	992.8	194.1	636.8
* 115.0	302.5	992.5	194.2	637.1
* 120.0	310.5	1018.7	186.2	610.9
* 125.0	335.4	1100.4	161.3	529.2
* 130.0	347.9	1141.4	148.8	488.2
* 135.0	357.0	1171.3	139.7	458.3
* 140.0	375.5	1232.0	121.2	397.6
* 150.0	397.6	1304.5	99.1	325.1
* 160.0	385.8	1265.7	110.9	363.8

Note that at 100° True (towards WKDE) that the HAAT is at least 185 m. The distance to the 54 dBuV (F50,10) would be 56 km at 6 kw and 48 km at 3 kw.

The usual distance is 44 km.

Under the present situation the interference from the Brown station would be within 13-17 km of WKDE's transmitter site.

CERTIFICATE OF SERVICE

I, David Hoehne, do hereby certify that a copy of these INITIAL COMMENTS in Docket 92-32 were deposited by me, postage prepaid, to the following parties:

Federal Communications Commission (original and four copies)
1919 M Street, NW
Washington, DC 20554

Mark J. Prak, Esquire (counsel to WVVV)
Tharrington Smith and Hargrove
209 Fayetteville Street Mall
Box 1151
Raleigh, NC 27602

Julian P Freret, Esquire (counsel to Susan Brown)
Booth Freret and Imlay
1920 N Street, NW
Suite 150
Washington, DC 20036

York David Anthony (engineering counsel to WVVV)
2613 Craig Avenue
Concord, North Carolina 28027

A handwritten signature in cursive script, reading "David Hoehne", written in dark ink.

David Hoehne
WKDE Altavista, VA

This the 17th day March, 1992